2. 2

2.

1 asymptoke out 180° breakonay pt: -4+252

breakinpt: -4-252.

2. bottom left plot.

3. asymptotically stally 2=0.

$$\begin{array}{ll}
1. & \text{y(4)} = (-e^{-2t} + e^{-t}) \cdot 1(t) \\
2. & \text{(b)}
\end{array}$$

- 2. a) Yes, stable.
 - b) unstable.